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AUG 03 2006

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: MIYA *et al.*

Serial No.: 10/681,369

Filed: 10/9/2003

Title: DISCONNECT PROTECTION  
STRUCTURE FOR ROTARY  
TRANSFORMER-TYPE RESOLVER

Atty. Dkt.: MINB-02011

Art Unit: 2836

Examiner: Roman

Mail Stop AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

## CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the USPTO (Fax. No. 571-273-8300) on 3 August 2006  
Typed Name: James E. Barlow.Signature: **REQUEST FOR RECONSIDERATION**

Sir:

The applicants respectfully request reconsideration of the final rejection mailed on 17 May 2006 for the reasons that follow.

Independent claims 1, 7 and 11 were rejected under section 103 as being unpatentable over Dulin *et al.* in view of Murakami *et al.* and Berger. The office action states the following:

"Berger teaches a thermal expansion coefficient absorption means for absorbing a difference between thermal expansion coefficients of a tube covering a lead in a resolver excitation windings (col. 1 lines 40-50)."

However, Berger does not teach this. The text of Berger cited by the examiner refers to a mechanical connection between a hub and a sleeve, which are not parts that involve wiring. Although Berger fails to identify the hub and sleeve he is referring to in column 1, lines 40-50 with specificity, a hub is a common mechanical part at the center of a rotating device. A sleeve

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that mates with a hub is another mechanical part that is common in rotating devices and has nothing to do with wiring, leads, crossovers or insulating tubes.

In any event, col. 1, lines 40-50 of Berger merely states that, as background information, thermal expansion between mechanical parts causes stress and can change operating characteristics of the device. There is no mention of a crossover lead or an insulation tube or any structure that relates to the claimed invention. The Berger patent relates to the mechanical structure of a resolver and does not relate to wiring, leads, crossovers or insulating tubes. Although coil wiring is shown in the Berger patent, it does not relate to thermal expansion or means for absorbing thermal expansion. Therefore, the language quoted above from the office action is unsupported by the Berger reference, and examiner's reliance on Berger is not understandable.

The office action further states the following:

Berger further teaches wherein the thermal expansion coefficient absorption means (col. 1 lines 40-45) comprises adjacent ends of insulating tube units and a predetermined gap defined between the adjacent ends, the plurality of insulating tube units, the plurality of insulating tube units thereby being capable of expanding or contracting in response to temperature changes.

However, col. 1, lines 40-50 fail to mention anything of the sort. There is simply no mention of an insulating tube in the text cited by the examiner. If this rejection is not withdrawn, the examiner is requested to specify where insulating tube units and a gap are mentioned in Berger.

Thus, while Berger is apparently being relied on to show a "thermal expansion coefficient absorption means" as claimed in claim 1, Berger fails to show such a means. Therefore, the combination of Dulin *et al.* in view of Murakami *et al.* and Berger fails to satisfy the terms of at least claim 1, and the rejection should be withdrawn.

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Further, since Berger fails to show a thermal expansion coefficient absorption means, there is no reason that one of ordinary skill would have combined Berger with Dulin *et al.* and Murakami *et al.*

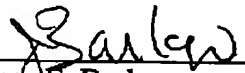
Since Berger fails to teach the subject matter for which it is cited in the office action, as indicated above, and since it would not have been obvious to have combined Berger with the other cited references, the applicants respectfully request that this rejection be withdrawn.

While there are many other arguments to be made against the rejections, the arguments relating to Berger above are notable since those alone should be sufficient to overcome the rejection without looking further. Therefore, the applicants respectfully request that the examiner reconsider at least the application and teachings of the Berger reference.

In view of the foregoing, the applicants submit that this application is in condition for allowance. A timely notice to that effect is respectfully requested. If questions relating to patentability remain, the examiner is invited to contact the undersigned by telephone.

If there are any problems with the payment of fees, please charge any underpayments and credit any overpayments to Deposit Account No. 01-0305.

Respectfully submitted,

  
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